CLAIMS

1. A glass yarn, in particular a staple glass yarn, coated with a sizing composition consisting of a solution comprising at least one fatty acid containing at least two ethylene bonds.

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- 2. The glass yarn as claimed in claim 1, characterized in that the fatty acid contains 10 to 24, preferably 14 to 22, carbon atoms.
- 3. The glass yarn as claimed in either of claims 1 and 2, characterized in that the fatty acid is chosen from linear-chain fatty acids.
- 4. The glass yarn as claimed in claim 3, characterized in that the fatty acid satisfies the following formula:

$$H_3C-A$$
 $CH_2-CH=CH$ $B-COOH$

in which A and B represent a hydrocarbon chain and the total number of carbon atoms in the chains A and B varies from 2 to 16.

- 5. The glass yarn as claimed in claim 4, characterized in that the acid contains 18 to 22 carbon atoms and satisfies the above formula in which:
 - $A = -(CH_2)_x$, x being an integer varying from 0 to 6, preferably equal to 0.3 or 6,
 - B = $-(CH_2)_y$, y being an integer varying from 2 to 11.
- 6. The glass yarn as claimed in one of claims 1 to 5, characterized in that the composition furthermore comprises at least one polymer carrying one or more hydroxyl, epoxy and/or amine reactive functional groups.
- 7. The glass yarn as claimed in claim 6, characterized in that the polymer has a molecular mass of at least 300 and preferably less than 3000.
- 25 **8**. The glass yarn as claimed in either of claims 6 and 7, characterized in that the polymer is a hydroxyl-terminated or amine-terminated polybutadiene.
 - **9**. The glass yarn as claimed in one of claims 1 to 8, characterized in that the fatty acid content is greater than or equal to 5%, preferably greater than or equal to 8%, by weight of the composition.
- 30 **10**. The glass yarn as claimed in one of claims 6 to 8, characterized in that the polymer content represents up to 40%, preferably 5 to 30% and advantageously 8 to 25%, by weight of the composition.

- 11. The glass yarn as claimed in one of claims 1 to 10, characterized in that the sizing composition furthermore includes at least one solvent in a proportion of between 0 and 30% by weight of the composition.
- 12. The glass yarn as claimed in one of claims 1 to 11, characterized in that the composition furthermore includes at least one coupling agent in a proportion of between 0 and 20% by weight.

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- 13. The glass yarn as claimed in one of claims 1 to 12, characterized in that the composition includes at least one textile processing aid in a proportion from 0 to 40%.
- 10 **14**. A sizing composition for glass yarn, in particular a staple glass yarn, consisting of a solution containing less than 5% water and comprising at least one fatty acid containing at least two ethylene bonds.
 - **15**. The composition as claimed in claim 14, characterized in that it has a viscosity of less than 120×10^{-3} Pa.s, preferably between 50 and 100×10^{-3} Pa.s.
 - **16**. The composition as claimed in either of claims 14 and 15, characterized in that the fatty acid content is greater than or equal to 5%, preferably greater than or equal to 8%, by weight of the composition.
 - 17. The composition as claimed in one of claims 14 to 16, characterized in that it furthermore includes at least one polymer carrying one or more hydroxyl, epoxy and/or amine reactive functional groups.
 - **18**. The composition as claimed in claim 17, characterized in that it includes a mixture of linoleic acid and of hydroxyl-terminated polybutadiene.
 - 19. A process for manufacturing sized glass yarns, especially sized staple glass yarns, in which a mass of molten glass streams flowing from a mass of orifices are drawn and wound in the form of a web on a rotating roll located more or less vertically beneath the bushing, the web is separated from the roll and the filaments chopped by means of a blade and said filaments are gathered together to form a staple glass yarn, said process consisting in depositing a sizing composition as claimed in one of claims 14 to 18 on the surface of the filaments before they come into contact with the roll.
 - 20. The process as claimed in claim 19, characterized in that the sizing composition is deposited by spraying.
 - 21. The use of the yarn as claimed in one of claims 1 to 13 to form a fabric, especially a paint canvas.

22. A glass fabric, characterized in that it comprises a staple glass yarn as claimed in one of claims 1 to 13 and in that said staple glass yarn has a tenacity of greater than 4 cN/ tex, preferably greater than 7.5 cN/tex.